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(54) STEAM REFORMING CATALYST AND ITS PRODUCTION

(57)Abstract:

PURPOSE: To maintain good catalytic activity such as excellent reaction efficiency, high production efficiency of hydrogen, and suppression of production of carbon under conditions of low S/C or high temp., and to remove undesirable residues or components such as halogen or acid radicals without causing deterioration of the catalyst.

CONSTITUTION: A steam reforming catalyst consisting of a ruthenium compd. carried on a carrier is treated by heating at 180-350° C and treated with alkali to obtain the catalyst. The heat treatment is preferably performed at 210-250° C, and the alkali used is preferably such one which does not remain after treatment or can be easily removed by simple post-treatment without residue. For example, compds. having volatility at low temp. such as ammonia and amines, or alkali metals or alkaline-earth metals which can be eluted or removed by washing with water or other solvents are used.

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